



白云实业集团
Baiyun Industrial Group

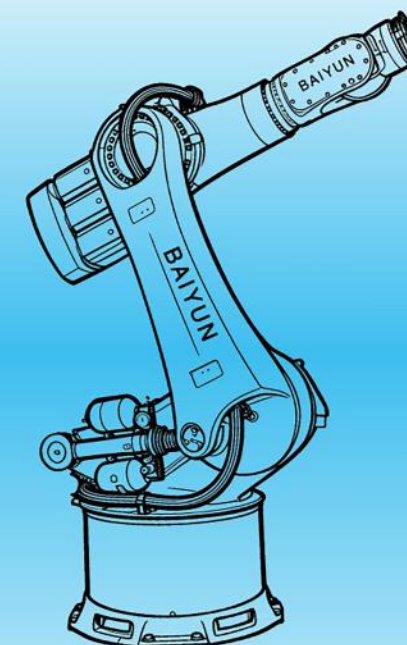
白云智能 智控未来 服务全球

Baiyun Intelligence Smart Control for the Future Serve the World

中国摩擦材料行业自动化设备研发制造示范基地
China Friction Materials Association Automation
Equipment R & D Manufacturing Base

全球摩擦材料技术研发及
智能装备解决方案服务商

Global Service Original Provider of Solutions for
Brakes Technology R & D and Intelligent Equipment



郑州白云智能装备有限公司
郑州白云实业有限公司

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郑州白云智能装备有限公司
Zhengzhou Baiyun Intelligent Equipment Co., Ltd.



◆ 企业简介

郑州白云实业(集团)有限公司始建于1977年,企业经过近50年的发展和创新,在全国分别建有白云实业,白云天慧,白云博瑞,黄石赛特,白云智能等五座大型生产制造基地,已逐步成为集摩擦材料研发,制造,制动片装备研发制造,制动器装备研发制造为一体的科技型集团公司。公司是国家级“高新技术企业”,国家级专精特新“小巨人”企业,是“中国摩擦密封材料协会副会长单位”,荣获“中国摩擦密封材料行业科技创新先进单位”及“摩擦材料生产设备质量管理优秀企业”,公司率先通过ISO9001和ISO/TS16949国际质量体系认证及“两化融合”体系认证。公司研发中心被认定为河南“省级企业技术研发中心”及“省级摩擦材料工程技术研究中心”与高校联合成立“智能装备及系统集成研发中心”。

白云实业专注摩擦材料近50多年来,潜心钻研和研发摩擦材料配方研究和成套非标模具及自动化设备的开发,初步形成了商用车鼓式制动片、商用车盘式制动片、乘用车盘式制动片、火车闸片、摩托车制动片五大系列自动化生产线,累计生产各种刹车片成套设备及制动蹄铁磨削/钻孔/铆接/除尘/单工位设备5000多台套。各种类型的刹车片模具超10000多套。提供各种刹车片自动化加工流水线约100多条。是行业内唯一的,可以提供各种刹车片工厂规划设计,刹车片成套模具设备流水线,原材料代购,配方提供,产品测试,生产技术培训等一系列交钥匙工厂的全能型企业。服务国内外超1000多个客户,出口到30多个国家,累计提供各种专业技术输出/咨询服务/义务帮助上万次。

白云实业:刹车片全应用领域技术专家。

白云智能:全球摩擦材料技术研发及智能装备解决方案服务商。

Five Production Bases of Baiyun Industrial Group



◆ Company Introduction

Zhengzhou Baiyun Industrial (Group) Co., Ltd. was founded in 1977. After nearly 50 years of development and innovation, the company has established five large-scale production and manufacturing bases across the country, including Baiyun Industrial, Baiyun Tianhui, Baiyun Brake, Huangshi Saite, and Baiyun Intelligent; It has gradually become a technology-based group company integrating the research and development, manufacturing of friction materials, brake pad equipment, and brake shoe equipment. The company is a national level "high-tech enterprise", a national level "small giant" enterprise specializing in new products, a "vice chairman unit of China Friction and Sealing Materials Association", awarded the "exemplary organization of scientific and technological innovation in China's friction and sealing materials industry" and "excellent enterprise of friction material production equipment quality management". The company took the lead in passing the ISO9001 and ISO/TS16949 international quality system certification and the "integration of industrialization and industrialization" system certification. The company's R&D center has been recognized as a "provincial-level enterprise technology R&D center" and a "provincial-level friction material engineering technology research center" in Henan, and a "smart equipment and system integration R&D center" has been jointly established with universities.

Baiyun Industry has been focusing on friction materials for nearly 50 years, focusing on the research and development of friction materials formula and the development of complete sets of non-standard molds and automation equipment, and has initially formed five series of automatic production lines for commercial vehicle brake linings, commercial vehicle brake pads, passenger vehicle brake pads, train brake block and motorcycle brakes. Accumulated production of all kinds of brake pads and brake shoe grinding/drilling/riveting/dust removal/simplex equipment more than 5000 sets. Various types of brake pad mold more than 10,000 sets. Provide a variety of brake pads automatic processing lines of about 100. It is the only enterprise in the industry that can provide a variety of brake pads factory planning and design, brake pads complete mold equipment assembly line, raw material purchase, formula provision, product testing, production technology training and a series of turnkey factories. We serve more than 1000 customers at home and abroad and export to more than 30 countries. Cumulatively provide a variety of professional technical output/consulting services/voluntary help tens of thousands.

Baiyun Industry: all application field technical expert for brake linings and brake pads.

Baiyun Intelligent: Global Service Original Provider of Solutions for Brakes Technology R & D and Intelligent Equipment.



1985年，河南省领导视察白云公司
In 1985, leaders of Henan Province inspected Baiyun Company



2017年，白云成立40周年庆典合影
In 2017, Group photo of Baiyun's 40th anniversary celebration



2007年，白云成立30周年纪念
In 2007, Baiyun celebrated its 30th anniversary



与高校联合成立智能装备及系统集成研发中心
Co-establish an Intelligent Equipment and System Integration R & D Center with universities

CHAIRMAN MESSAGE

董事长寄语



BAIYUN GROUP

郑州白云实业集团有限公司

Zhengzhou Baiyun Industrial Group Co. Ltd

董事长：李双宪

Chairman Li Shuangxian



海内外支持白云实业的朋友们：

长期以来大家对白云实业的发展，倾注了关怀和呵护，给予了信赖和支持，作为白云企业的掌舵者我深深致谢！

天若有情天亦老，人间正道是沧桑。我们回首白云近五十年的发展历程，可谓风雪载途、几多坎坷，恰恰印证了此诗的寓意。可以说，白云的历史是改革开放后集体企业和民营企业发展轨迹的一个缩影。它的诞生，发轫于白云人对经济建设的孜孜追求；它的成长，得力于国家大环境的稳定向上；它的腾飞，加速于03年的企业改制重组；它的未来，成就于缜密的计划和不懈的努力。现在，白云企业已经从一弱小的集体制企业发展为集精密模具、机床设备、摩托车刹车片、轿车盘式刹车片和载重汽车刹车片等业务为一体的知名企业。而白云品牌也是从局域品牌逐步升级为深受国内外客户选择和信赖的知名品牌。

Friends at home and abroad to support the cause of Baiyun:

For a long time everyone on the cause of the development of Baiyun, devoted to care and care, to give the trust and support, as the helm of the Baiyun enterprise, Thank you very much!

Days if the love is also old, the right path is the vicissitudes of life. We look back on the development process of five decades of Baiyun, can be described as all the way hard, how many ups and downs, just confirms the meaning of this poem. It can be said that the history of Baiyun is a microcosm of the development of collective enterprises and private enterprises after the reform and opening up. It is born in the Baiyun people on the economic construction of the diligently pursued; its growth, thanks to the stability of the national environment up; it's take-off to accelerate the restructuring of enterprises in 2003; its future, achievements in careful planing and unremitting efforts. Now, Baiyun enterprises have developed from a weak collective system for the development of precision abrasive, machine tools, motorcycle brake linings, car brake pads, and truck brake linings and other business as one of the well-known enterprises, and Baiyun brand from the Board Domain brand gradually upgraded to domestic and foreign customers praise and trust the swell known brands.



Li Shuangxian

发明专利 Invention Patents



企业文化

Corporate Culture

愿景:

创新技术 成为国际领先的汽配供应商和装备智造商

Vision:

To become an internationally leading automotive parts supplier and equipment intelligent manufacturer

价值观:

诚信 和谐 创新 奉献

Values:

Integrity, Harmony, Innovation, Dedication

使命:

让员工实现身心幸福

让企业持续高效发展

让人类交通更加安全

Mission:

To enable employees to achieve physical and mental well-being, enable the sustainable and efficient development of the enterprise, and make human transportation safer

经营方针:

以客户为中心 技术为本 做卓越极致的产品

Policy:

Customer-centric, technology oriented, and creating excellent and ultimate products

荣誉资质 Honor and Qualification



鼓式刹车片系列

Brake Lining Series



鼓式制动衬片及蹄铁
Brake Linings and Brake Shoes



摩托车鼓式刹车片
Motorcycle Brake Linings

公司重卡无石棉刹车片产品被东风汽车商用车零部件采购总部列为无石棉刹车片三家配套供应商之一，相继成为一汽、二汽、陕汽、宇通、中集、永力泰、柳工、龙工、北汽福田等主机配套单位。

公司摩托车刹车片产品为重庆嘉陵、力帆、宗申、隆鑫、洛阳大阳、广州大长江等厂家配套，赢得用户广泛赞誉，占国内摩托车主机配套量的60%以上，成为中国规模较大的摩托车(含电动车)刹车片生产基地。

公司商用车及乘用车盘式刹车片产品自投放市场以来，先后为上海公交、天津公交等提供售后配套产品。白云博瑞公司年产能达200万套乘用车盘式刹车片及100万套商用车盘式刹车片。

公司拥有省级技术研发中心、数台商用车及乘用车惯量台架试验机，以及雄厚的科研技术人才储备，为摩擦材料配方的研发奠定了坚实的基础，决定了白云集团公司的产品在行业内名列前茅！



商用车惯量台架试验机
C.V. Inertia Dynamometer

盘式刹车片系列

Brake Pad Series



乘用车盘式刹车片
P.V. Brake Pads



商用车盘式刹车片
C.V. Brake Pads

The company's heavy-duty truck non-asbestos brake linings are listed as one of the three supporting suppliers of non-asbestos brake pads by Dongfeng Automobile Commercial Vehicle Parts Purchasing Headquarters, and have successively become OEM for such as FAW, Second Automobile, Shanxi Automobile, Yutong, CIMC, Yonglitai, Liugong, Lonking, Foton.

The company's motorcycle brake pads are supplied by Chongqing Jialing, Lifan, Zongshen, Loncin, Luoyang Dayang, Guangzhou Dachangjiang and other manufacturers, and have won wide praise from users. It accounts for more than 60% of the domestic motorcycle mainframe matching volume, becoming the largest in China. Large motorcycle (including electric vehicle) brake pad production base.

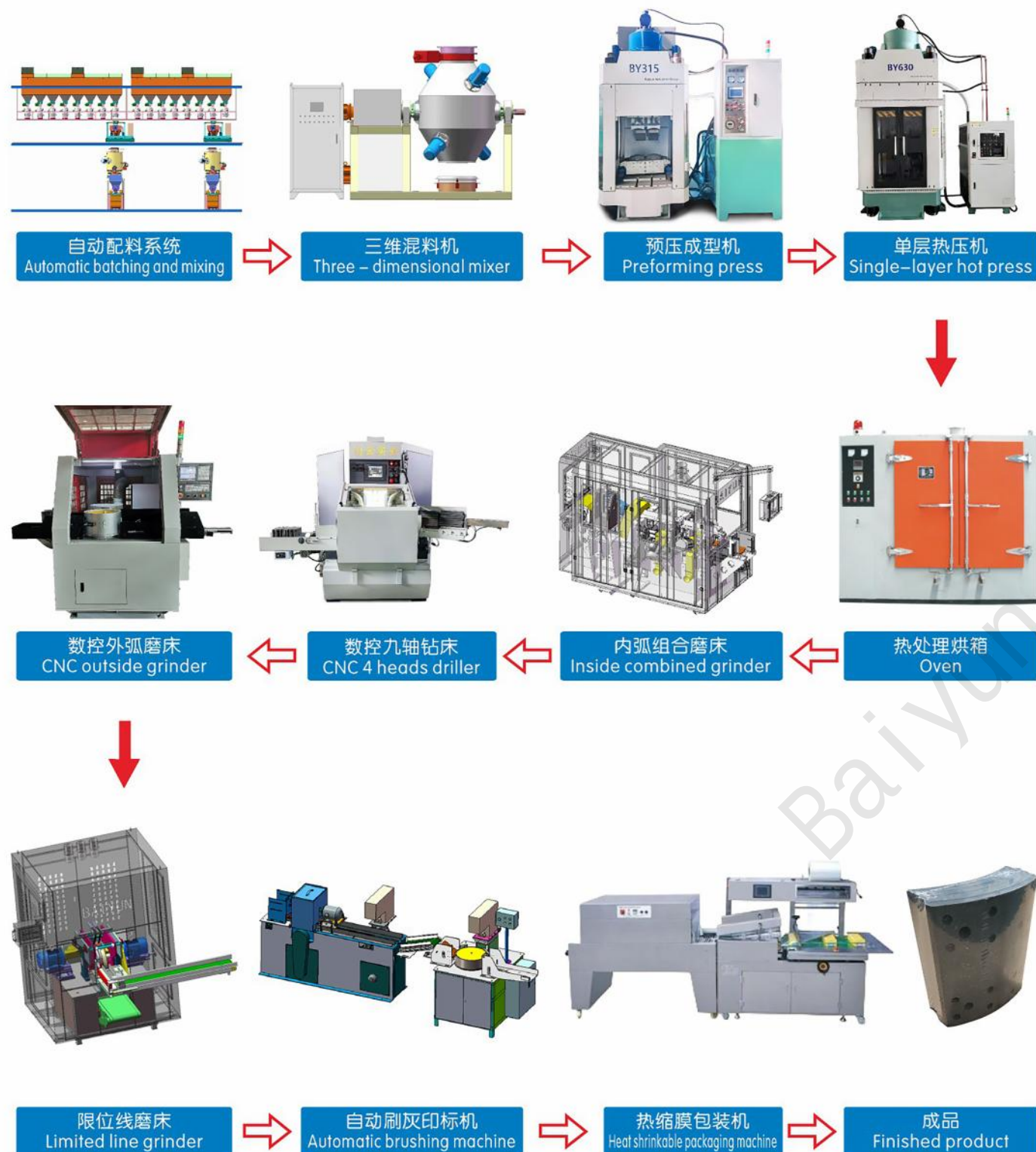
Since the company's commercial vehicle and passenger vehicle brake pads were put on the market, it has successively provided after-sales supporting products for Shanghai Public Transport and Tianjin Public Transport. Baiyun Brake Company specializes in producing brake pads, with an annual production capacity of 2 million sets of brake pads for passenger vehicles and 1 million sets of brake pads for commercial vehicles.



乘用车惯量台架试验机
P.V. Inertia Dynamometer

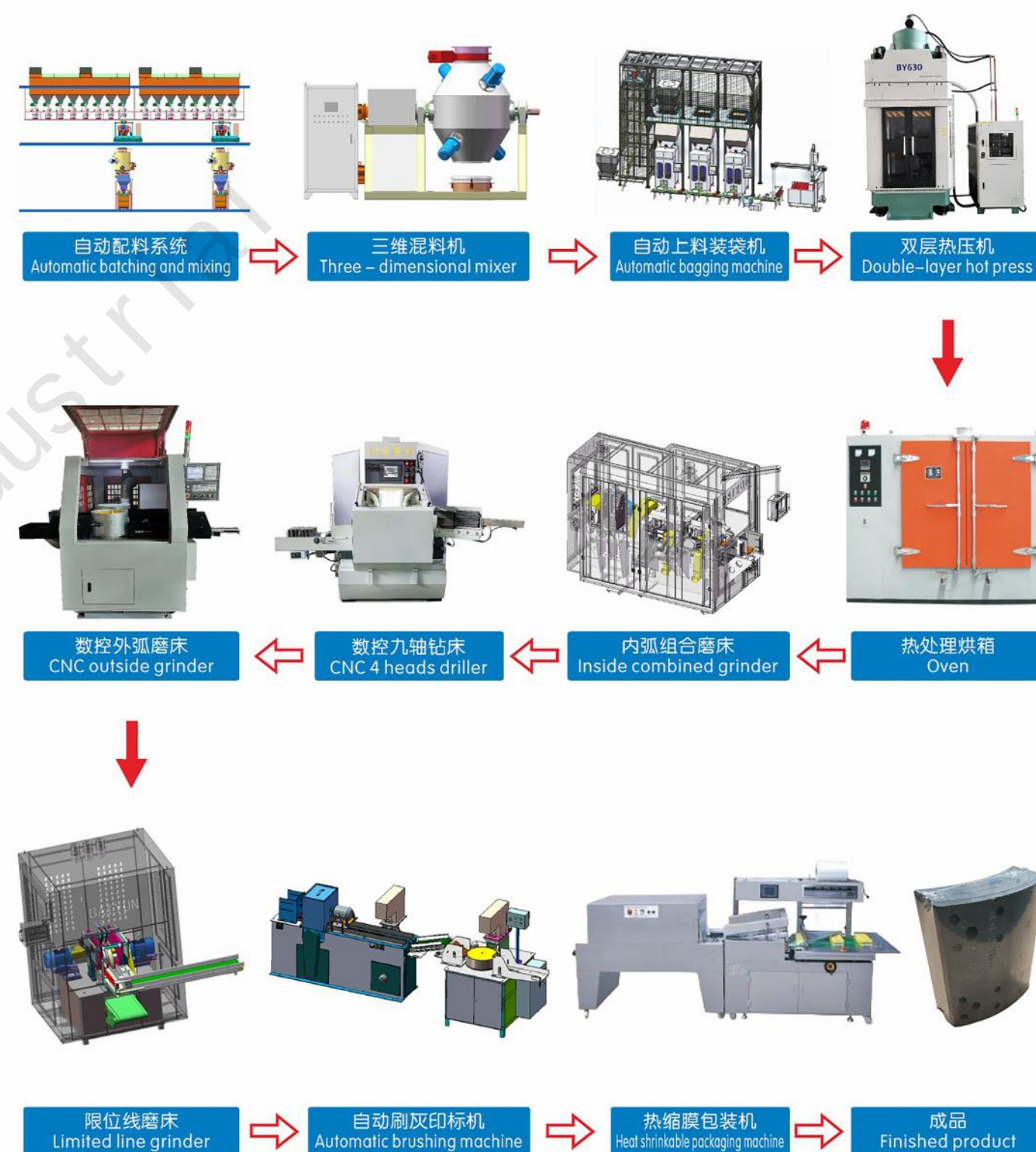
鼓式刹车片毛坯预压成型生产工艺流程图

Production Process Flow of Brake Linings with Two-step Forming



鼓式刹车片装袋生产工艺流程图

Production Process Flow of Brake Linings with Bagging Process



鼓式刹车片筒模生产工艺流程图

Production Process Flow of Brake Linings with One-step Forming



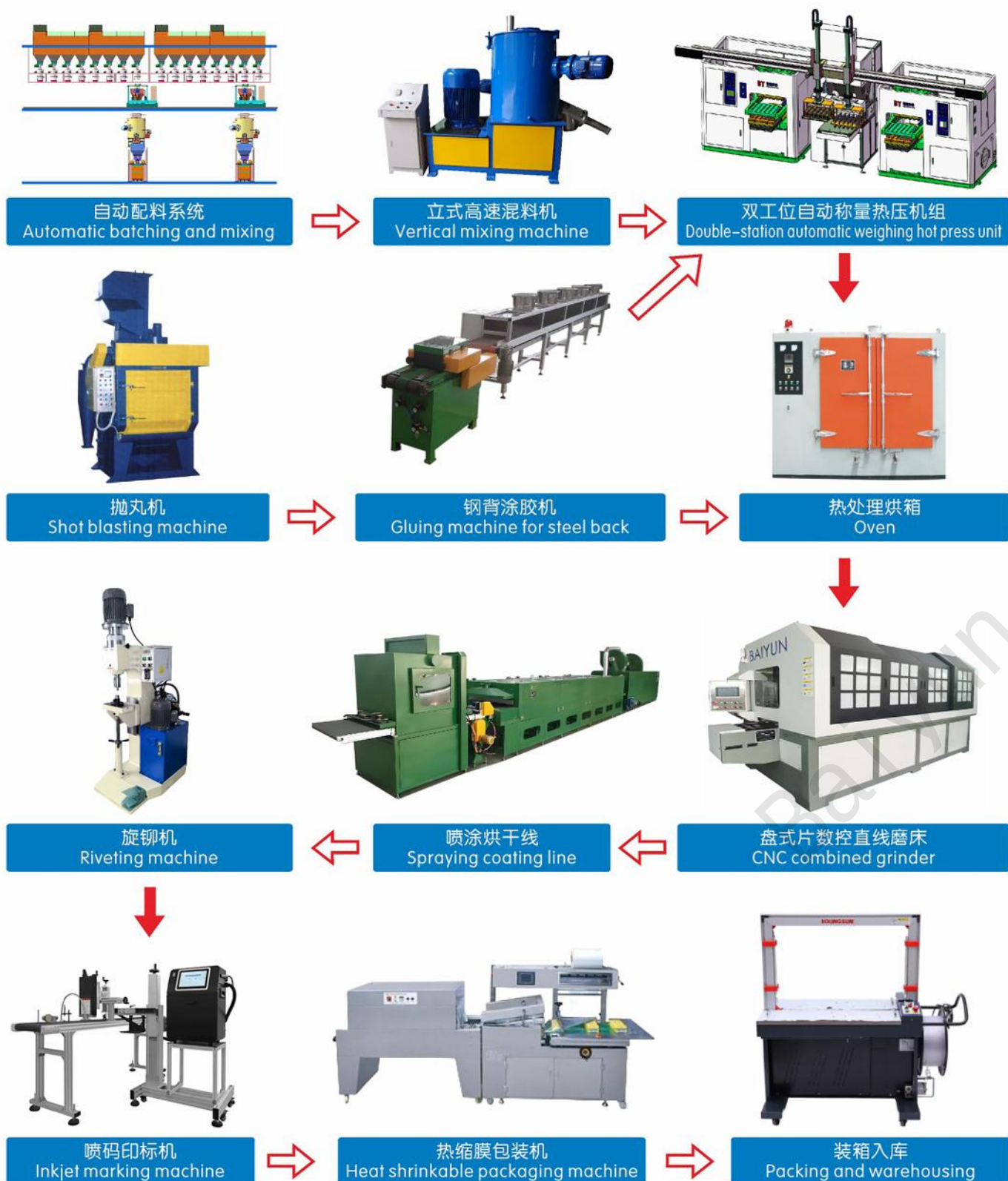
鼓式刹车片长瓦模具生产工艺流程图

Production Process Flow of Brake Linings with Long Blocks Molds



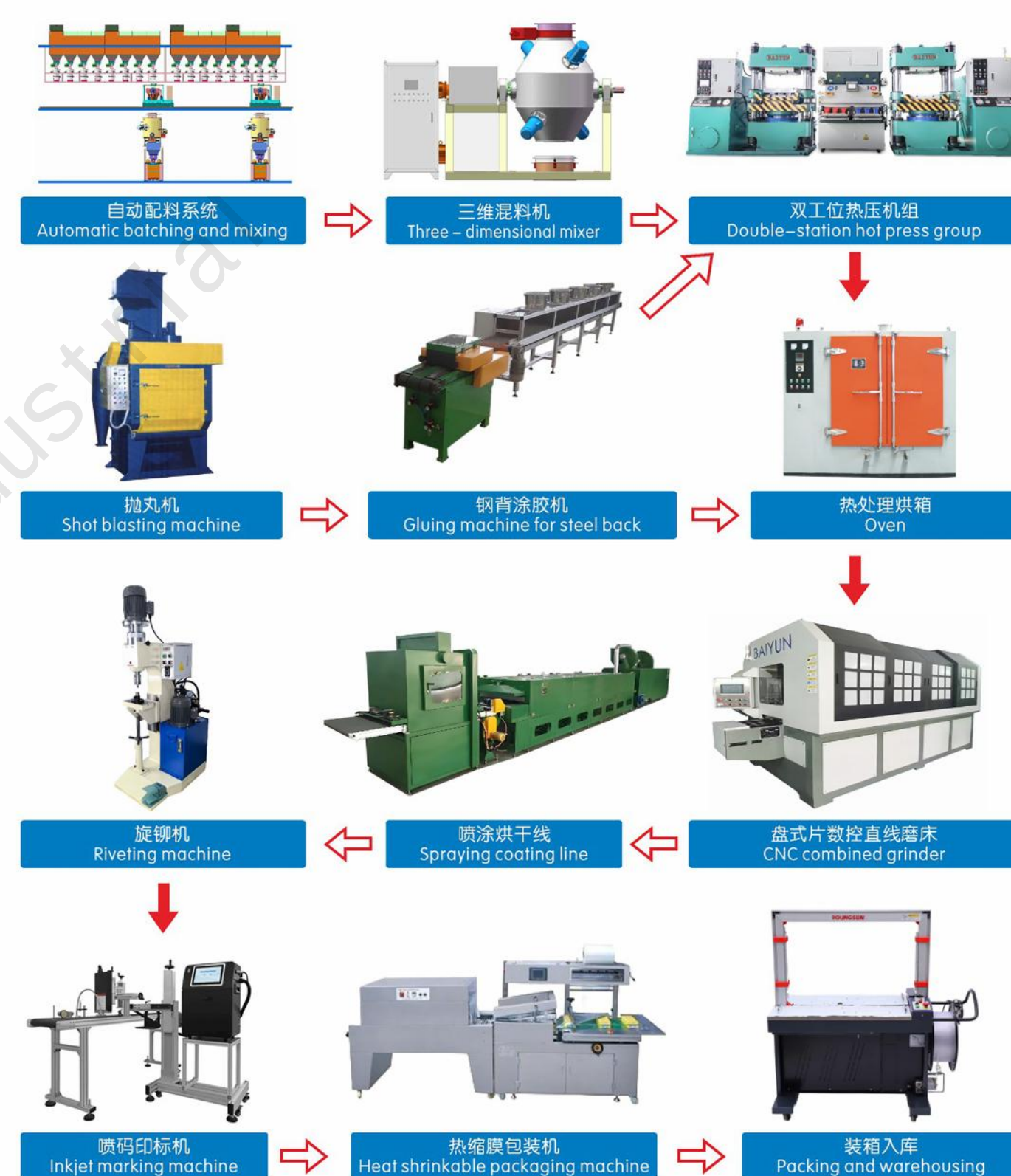
乘用车盘式刹车片生产工艺流程图

Production Process Flow of Brake Pads



商用车盘式刹车片生产工艺流程图

Production Process Flow of Truck Brake Pads



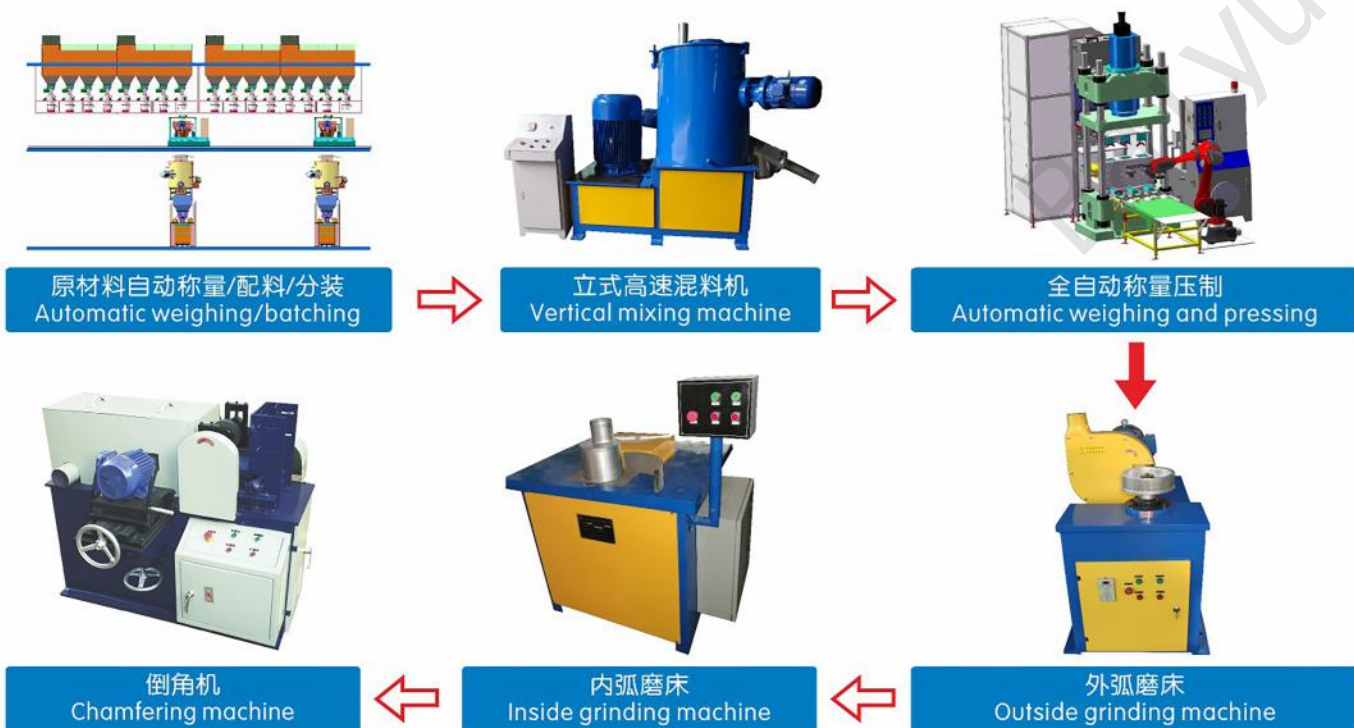
轻型车刹车片生产工艺流程图

Production Process of Light Vehicle Brake Linings



摩托车刹车片生产工艺流程图

Production Process of Motorcycle Brake Linings



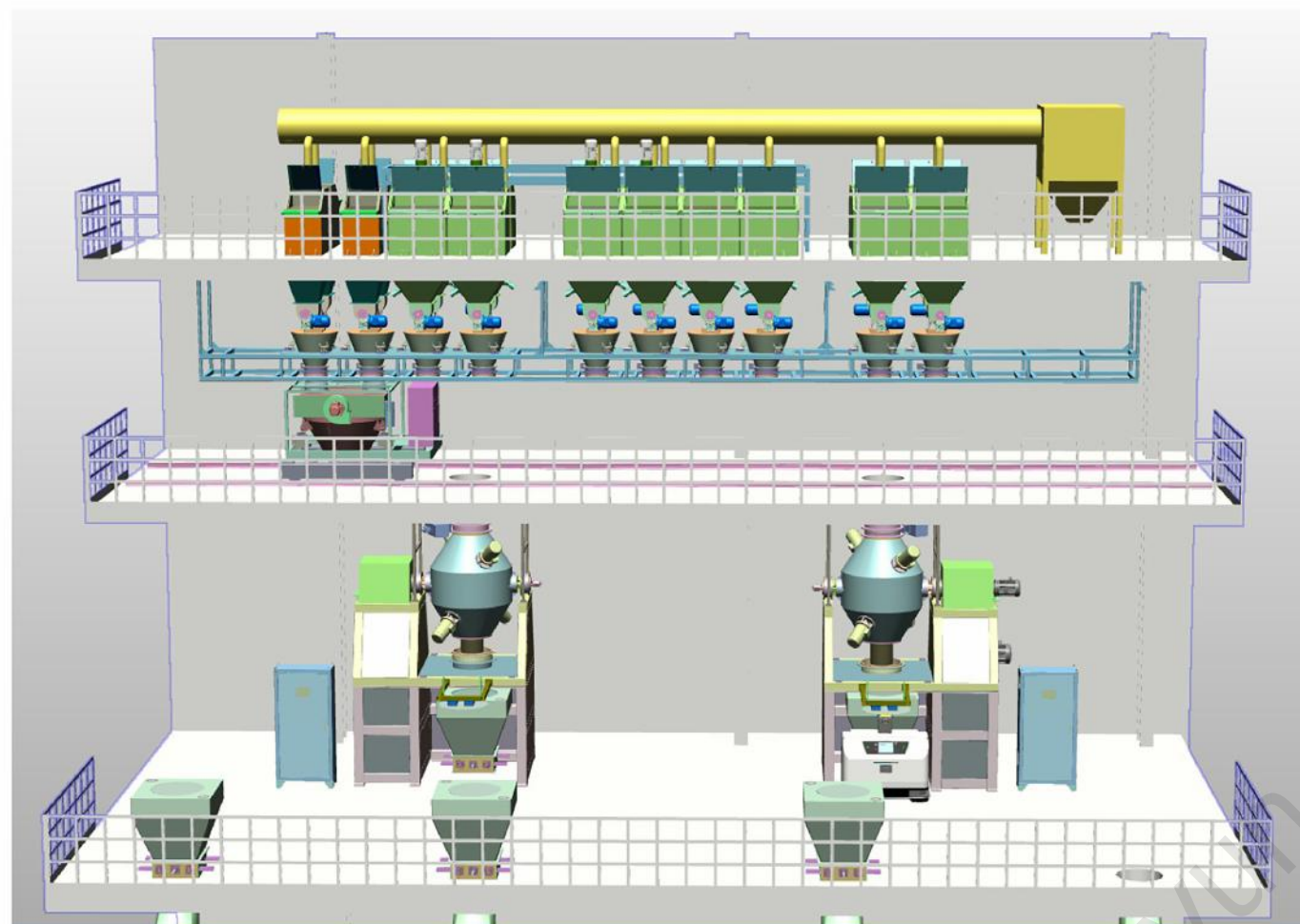
火车闸瓦片生产工艺流程图

Production Process of Train Brake Blocks



立体式自动配料系统图

Schematic diagram of a three-dimensional automatic batching system



该系统可根据摩擦材料配方需求自动完成18-30种原材料自动配料。集储料斗、定量给料、称重、密封输送、复称为一体，全过程微机控制，自动监控，配方保密性好，配料精度高，能够很好地改善工作环境。

This system can operate batching automatically for 18-30 kinds of raw materials according to the requirements of formula, which is integrated with storage hopper, quantitative feeding, weighing, hermetical conveying and double weighing together. The whole process is controlled by computer, automatic monitoring, good formula confidentiality, high accurate weighing, which can improve the environment better.



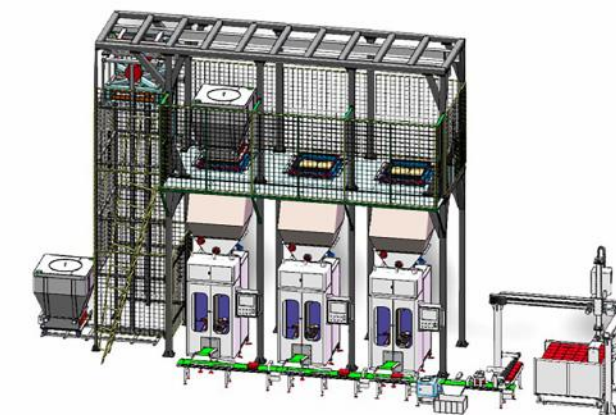
储料仓
Storage silo



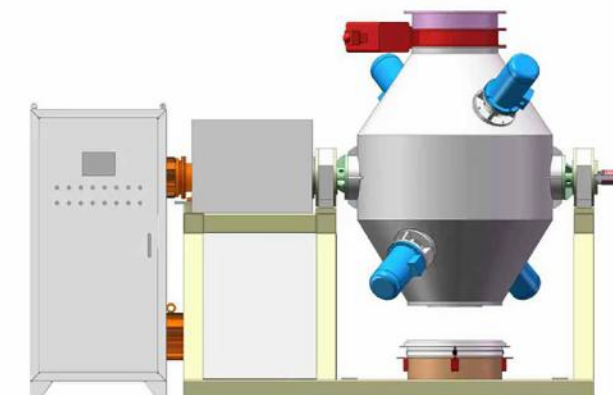
配料控制系统
Batching control system



配料监控系统
Ingredient monitoring system



自动上料称量装袋系统
Automatic feeding and weighing and bagging system



三维混料机
Three - dimensional mixer



犁耙式混料机
Horizontal mixing machine

鼓式刹车片自动磨削流水线方案

Automatic Processing Line for Brake Lining



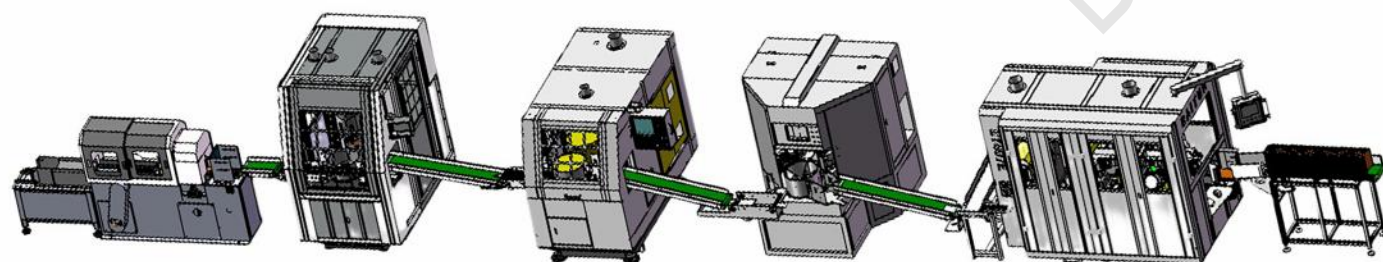
商用车鼓片数控磨削线

CNC Grinding Line for Commercial Vehicle Brake Linings



通用型磨削流水线直线型方案

Straight Common Processing Line



鼓式刹车片自动磨削流水线简介

Brief Introduction of Automatic Processing Line for Brake Lining

适用于鼓式制动片后工序流水线式磨削加工生产，两边切边——两边倒角——内弧磨削——钻孔——外弧磨削——报警线磨削——内外弧刷灰——内弧LOGO——端面喷码——堆垛推出，共10道工序连成流水线加工，实现产品不落地自动化生产，具有自动化程度高、劳动强度低、节约人工等优点。一条磨削自动流水线8小时产量2000-3000片

It is suitable for the production of drum brake linings in the post-process pipeline grinding process. Both sides are trimmed—both sides are chamfered—internal arc grinding—drilling—external arc grinding—upper and lower end alarm line grinding— Internal and external arc brushing—internal arc LOGO—end face spraying—stacking launch, a total of 10 processes are connected into an assembly line to realize automatic production of products without landing, with high automation, low labor intensity, and labor saving. An automatic grinding line produces 2000-3000 pieces in 8 hours

客户使用现场

Operating Sites of Main Customers



浙江客户工厂
Zhejiang Customer's Factory



安徽客户工厂
Anhui Customer's Factory



湖南客户工厂
Hunan Customer's Factory



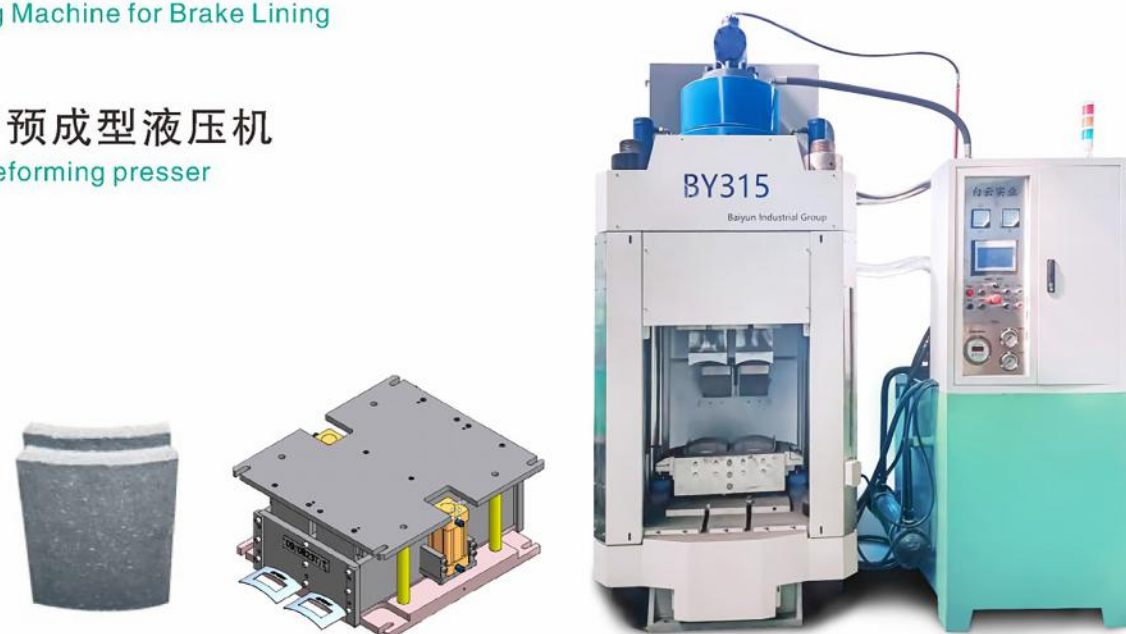
国外客户工厂
Overseas Customer's Factories

鼓式刹车片液压机系列

Pressing Machine for Brake Lining

315T 预成型液压机

315T Preforming presser



可实现底料和面料自动称量，自动投料，自动预成型压制推出

It can realize automatic weighing, automatic feeding, automatic pre-forming pressing and pushing out.

315T四柱热压机

315T Four-pillar presser



标准压力机，可配合各种鼓式桶模热压使用

Standard press, can be used with various barrel mold or row mold

鼓式刹车片液压机系列

Pressing Machine for Brake Lining

630T/800T四柱热压机

630T/800T Four-pillar hot presser

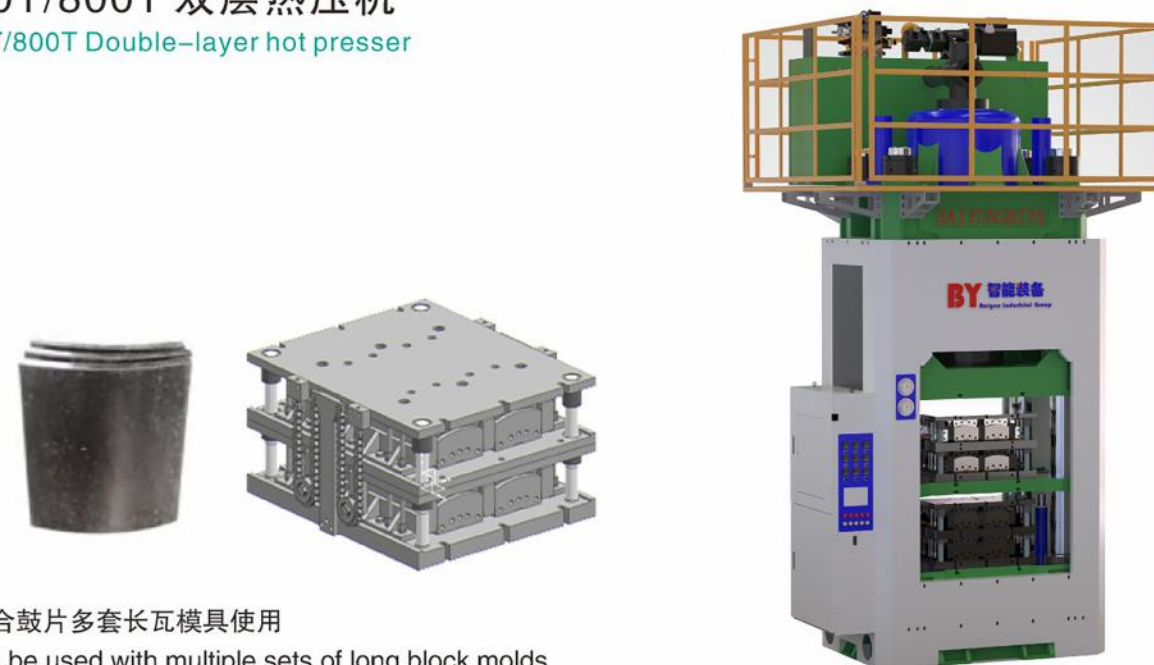


可匹配各种鼓片三层排模使用

It can be used with 1 set three-layer row mold

630T/800T 双层热压机

630T/800T Double-layer hot presser



可配合鼓片多套长瓦模具使用

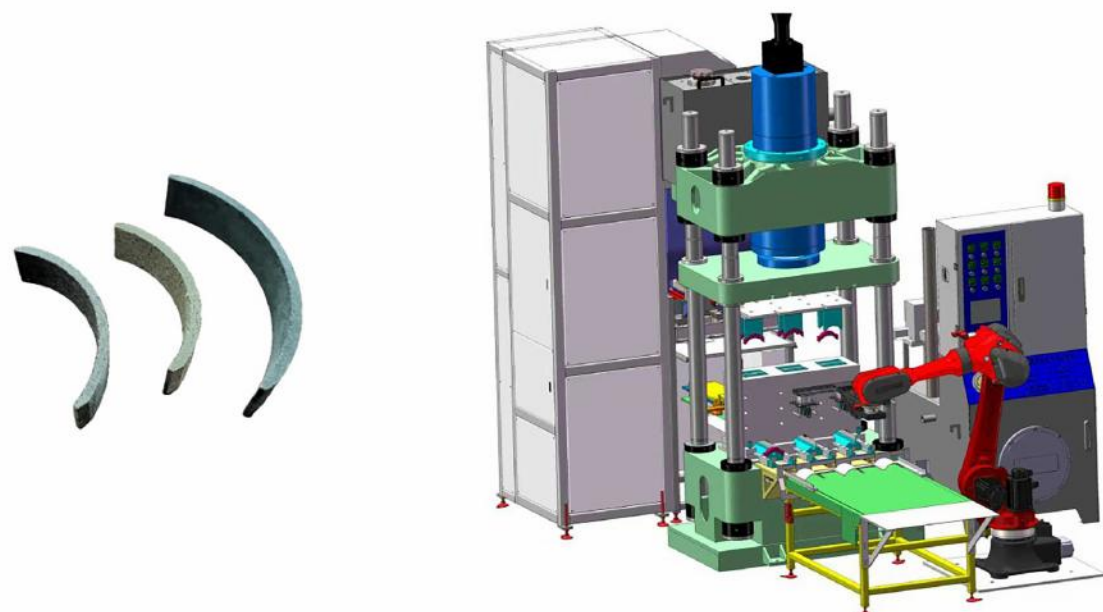
It can be used with multiple sets of long block molds

鼓式刹车片液压机系列

Pressing Machine for Brake Linings

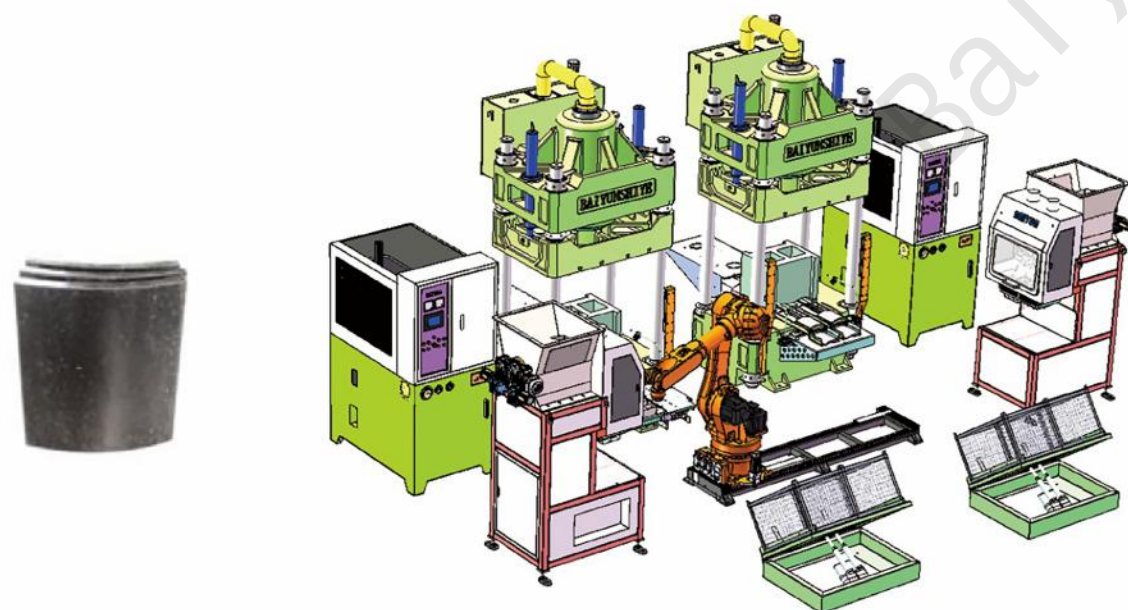
轻型车鼓式片全自动称量投料压制出装系统

Fully automatic weighing, feeding, pressing and loading system for light vehicles brake linings



载重车鼓式片全自动称量投料压制出装系统

Fully automatic weighing, feeding, pressing and loading system for heavy-duty trucks brake linings



盘式刹车片液压机系列

Pressing Machine for Brake Pads

200T/300T/400T 下缸式热压机

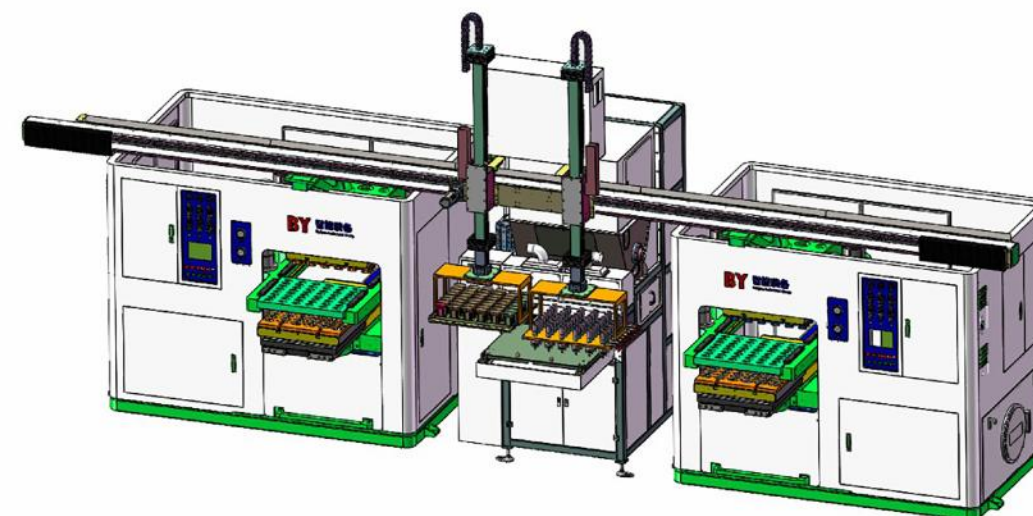
200T/300T/400T Bottom cylinder presser



配合各种盘式刹车片模具使用，可实现钢背上置或下置两种方式热压成型工艺
It can be used with various brake pad molds, steel back plate can be put on up down of mold.

盘式片200T/300T/400T双工位自动称量热压机组

200T/300T/400T Double-station automatic weighing hot press unit



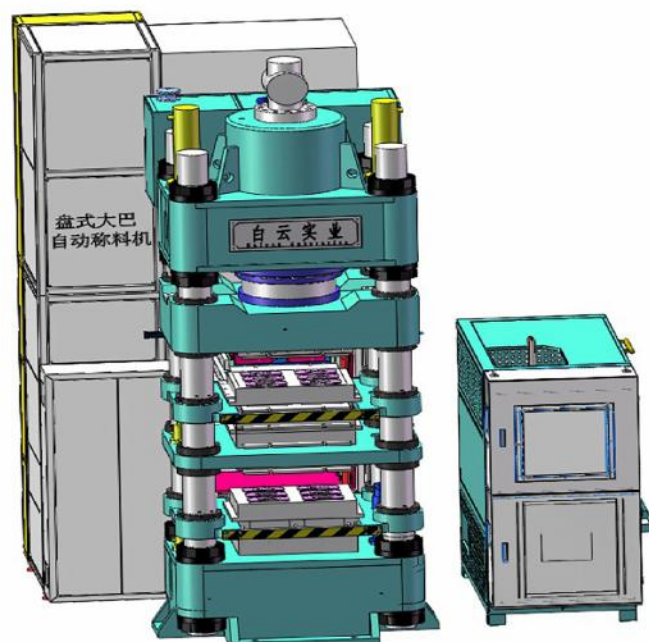
配合各种盘式刹车片模具使用，可实现双层料自动称量自动投料自动压制
With the use of various brake pad molds, it can realize automatic material weighing, automatic feeding and pressing

盘式刹车片液压机系列

Pressing Machine for Brake Pads

大盘片500T/630T自动称量双层热压机

500T/630T Double-layer automatic weighing hot press for truck brake pads



可配合两套单层六腔模具使用，实现自动称料、自动投料、自动压制

It can be used with two sets of molds to realize automatic weighing, automatic feeding and automatic spreading

盘片160T六工位等比压热压机组

160T Six-station equal pressure hot press unit for brake pads



配合各种盘式等比压刹车片模具使用，可实现多品种同时生产，每个模腔压力，密度，温度均匀稳定一致

With a variety of equal pressure brake pad mold use, can achieve each mold cavity pressure, density, temperature uniform stability

盘式刹车片液压机系列

Pressing Machine for Brake Pads

摩托车盘片全自动压制生产线

Fully automatic pressing system for motorcycle brake pads



可实现双层料配方冷压预成型+毛坯预热保温+热压二次成型工艺；自动称量、投料、摊料、上钢背、取成品以及喷脱模剂等全自动化压制工艺

It can realize the preforming and hot pressing secondary forming process of double layers material formula. Automatic weighing, feeding, spreading, back plate feeding, taking the finished product and spraying release agent and other fully automatic pressing process

盘片125T/160T四工位热压机组

125T/160T Four-station hot press unit



配合各种盘式刹车片模具使用，可多品种同时生产

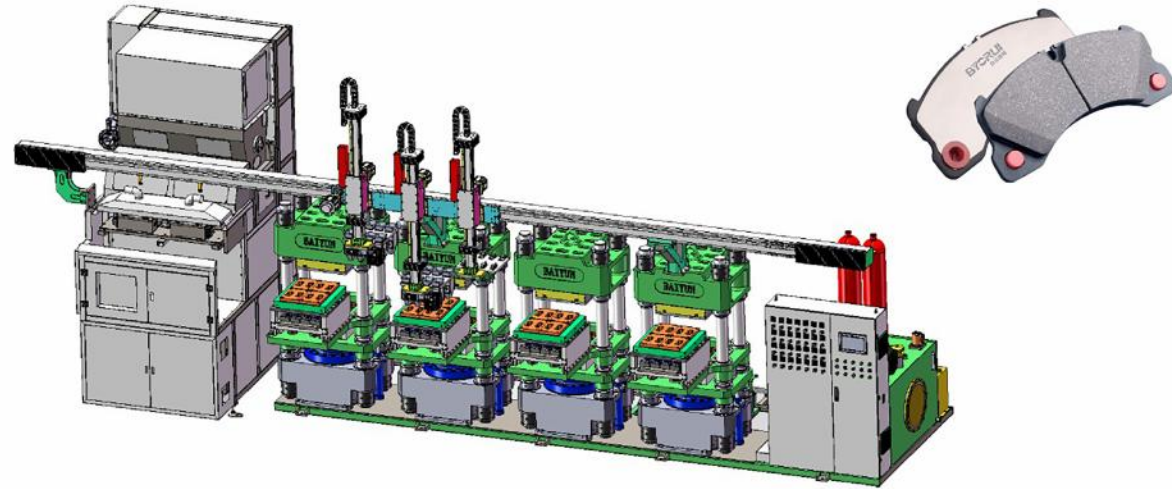
It can be used with various brake pads molds, and can produce multiple varieties simultaneously

盘式刹车片液压机系列

Pressing Machine for Brake Pads

盘片等比压200T/300T多工位全自动热压生产线

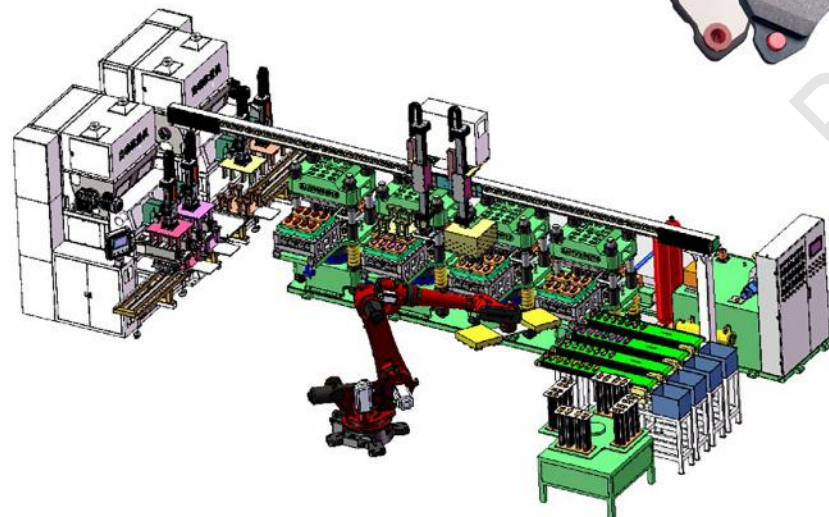
200T/300T Multi-station equal pressure hot press line



可实现自动称量、自动投料、自动摊料、自动上钢背、自动取成品以及自动喷脱模剂等全自动化热压工艺
It can realize automatic hot pressing process such as automatic weighing, automatic feeding, automatic amortizing, automatic loading of steel back, automatic taking of finished products and automatic spraying of release agent

盘片等比压200T/300T全自动压制生产线

200T/300T Full automatic equal pressure hot press line



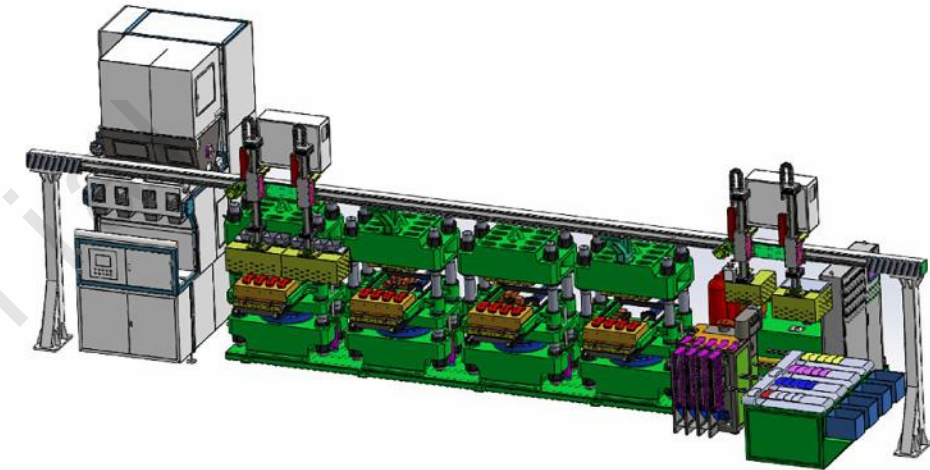
可实现双层料配方冷压预成型+毛坯预热保温+热压二次成型工艺；自动称量、投料、摊料、上钢背、取成品以及喷脱模剂等全自动化压制工艺
It can realize the preforming and hot pressing secondary forming process of double layers material formula. Automatic weighing, feeding, spreading, back plate feeding, taking the finished product and spraying release agent and other fully automatic pressing process

盘式刹车片液压机系列

Pressing Machine for Truck Brake Pads

大盘片400T/500T多工位全自动热压生产线

400T/500T Multi-station automatic hot pressing production line



可实现自动称量、自动投料、自动摊料、自动上钢背、自动取成品以及自动喷脱模剂等全自动化热压工艺
It can realize automatic hot pressing process such as automatic weighing, automatic feeding, automatic amortizing, automatic loading of steel back, automatic taking of finished products and automatic spraying of release agent

盘片400T四工位自动称量热压机组

400T Four-station automatic weighing hot press unit



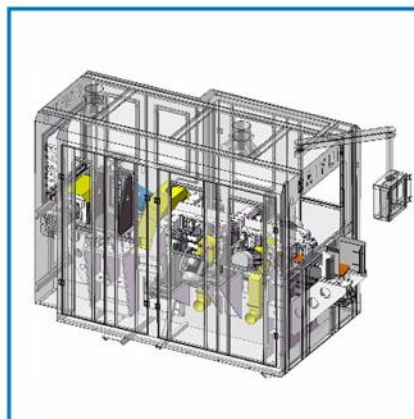
可实现双层料自动称料、自动投料、自动摊料、自动压制
It can realize automatic weighing, automatic feeding, automatic spreading and automatic pressing

鼓式刹车片设备系列

Processing Equipments for Brake Lining



内弧组合磨床
Inside combined grinder



新型内弧组合磨床
New - type Inside combined grinding machine



外弧磨床
Outside grinder



数控外弧磨床
CNC outside grinder



限位线磨床
Limited line grinder



多刀切割机
Multiple blades cutter



数控九轴钻床
CNC 4 heads driller



数控五轴钻床
CNC 2 heads driller



内外弧刷灰机
Automatic brushing machine

鼓式刹车片设备系列

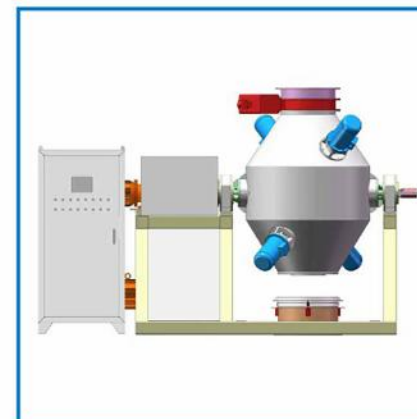
Processing Equipments for Brake Lining



立式高速混料机
Vertical high speed mixer



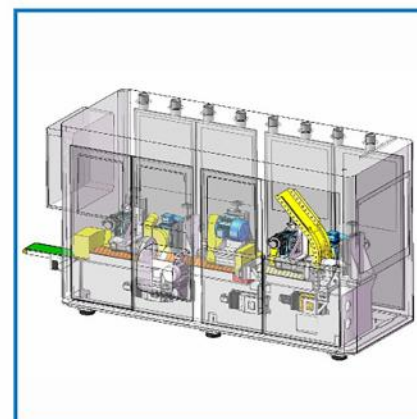
犁耙式混料机
Plough mixer



三维混料机
Three - dimensional mixer



轻型车外弧磨床
Light vehicle outside grinder



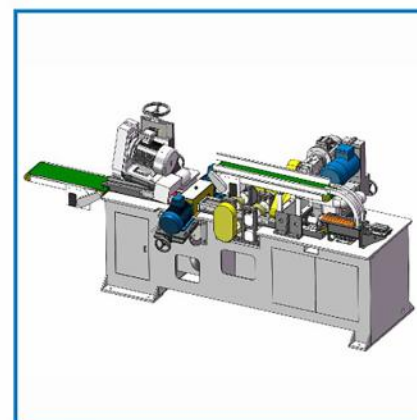
轻型车组合磨床
Combined grinder for light vehicles



轻型车内弧磨床
Light vehicle inside grinder



轻型车多刀切割机
Light vehicle multi blades cutter



轻型车片专用组合磨床
Light vehicle combined grinder



倒角机
Chamfering machine

刹车片模具系列

Brake Lining and Brake Pad Mold Series



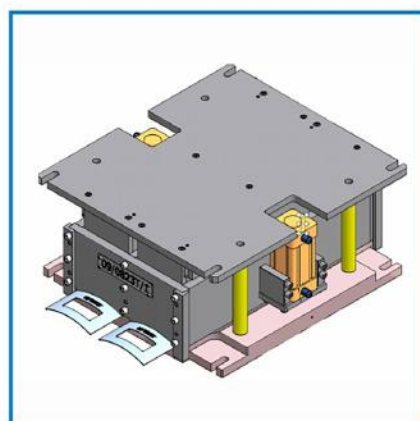
鼓式片双层排模
2-layer mold for brake lining



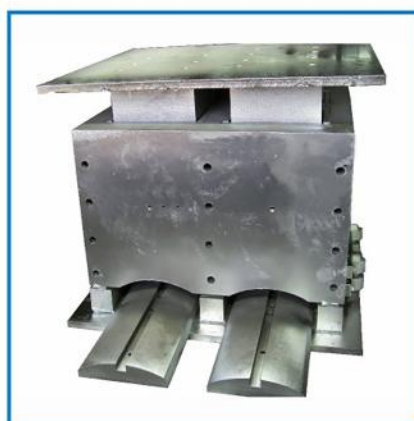
鼓式片三层排模
3-layer mold for brake lining



鼓式片长瓦模具
Brake lining long block mold



鼓式片预成型桶模
Preforming mold



鼓式片桶模
Brake lining tube mold



多腔盘式模具
P.V. brake pad mold



盘式片等比压模具
Brake pad equal pressure mold



商用车盘式片模具
C.V. brake pad mold



火车闸瓦多腔模具
Train brake block mold

盘式刹车片设备系列

Processing Equipment for Brake Pads



盘片数控直线磨床
Brake pad CNC combined grinder



自动称量机
Automatic weighing machine



盘片平面磨床
Brake pad surface grinder



钢背抛丸机
Shot blasting machine



热处理烘箱
Oven



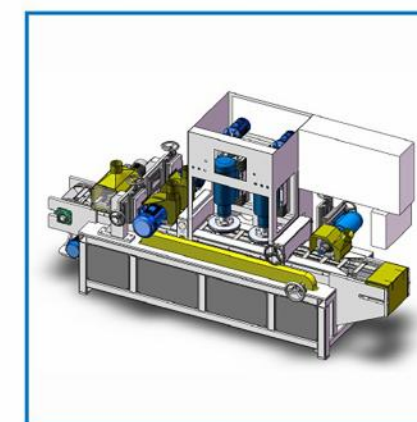
喷涂烘干线
Spraying coating line



旋铆机
Riveting machine



钢背涂胶机
Gluing machine



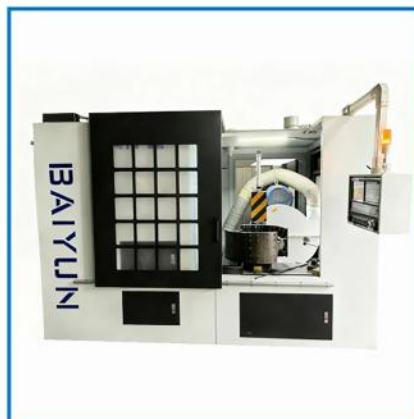
盘片机械直线磨床
Brake pad combined grinder

鼓式制动器设备系列

Processing Equipments for Drum Brake Shoe



制动蹄数控立车
CNC vertical lathe



立卧数控外弧磨床
Vertical and horizontal CNC outside grinder



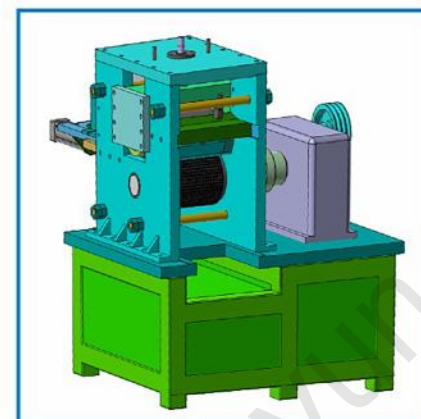
立式数控外弧磨床
Vertical CNC outside grinder



制动蹄钻镗孔机
Drilling and counter sinking machine



制动蹄双头铆接机
Double heads riveting machine



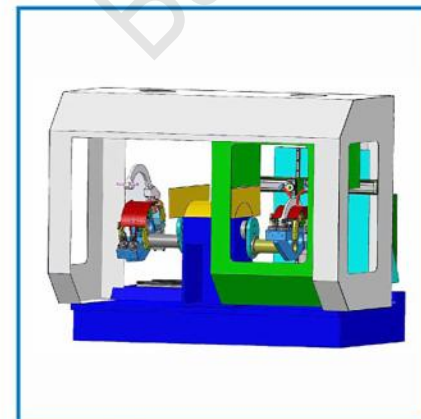
卷圆机
Rolling machine



矿用蹄定制单头铆接机
Customized single riveting machine for mining shoes



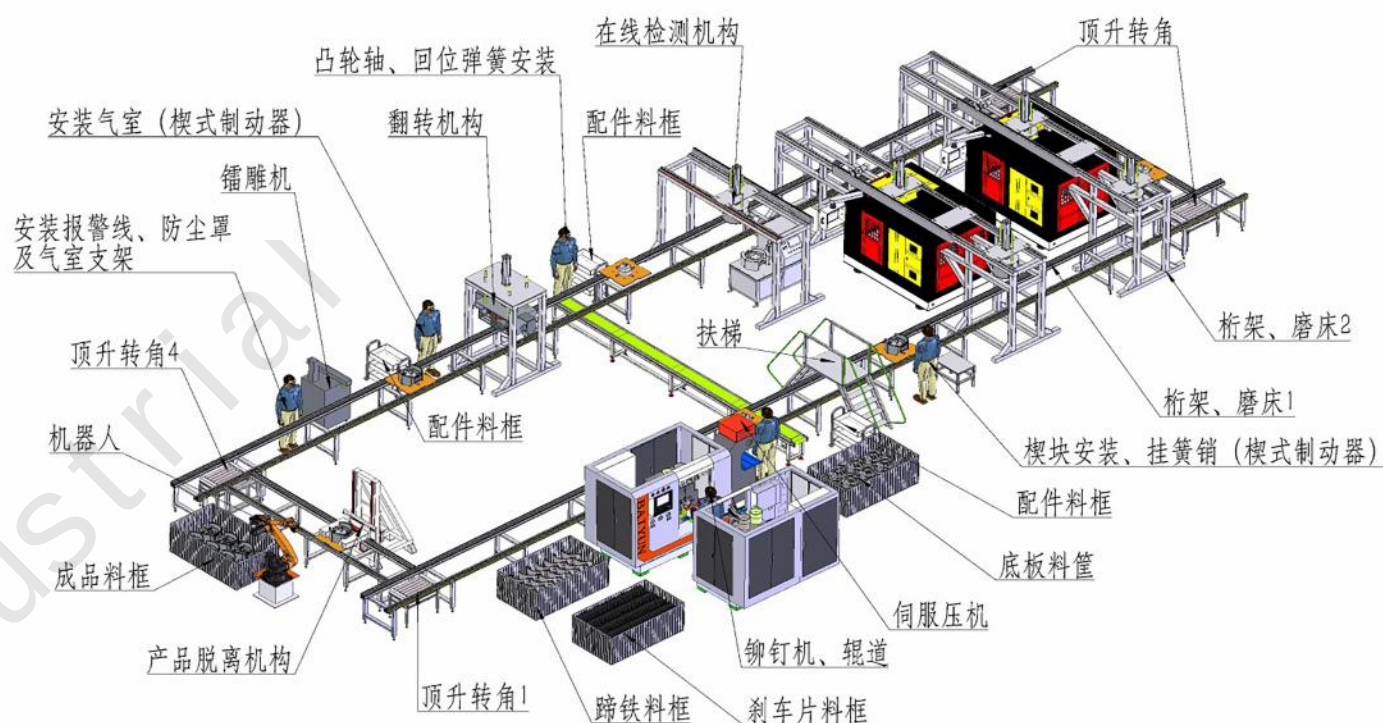
制动蹄单头铆接机
Single head riveting machine



制动蹄双工位焊接工作站
Double stations welding workstation

鼓式制动器装配流水线

Processing Line for Brake Shoe



• 本鼓式制动器装配生产线能满足各种鼓式制动器总成及楔式制动器总成流水线式装配，且具有一定扩展能力。

• 该线主要工位组成：铆接工位，蹄铁底板附件装配工位，磨削+检测工位，翻转工位，制动器总成附件装配工位，码垛工位等组成。

• 可根据用户需求工艺定制各种自动化装配线

• This brake shoe assembly production line can meet the assembly of various drum brake shoe and wedge brake shoe, and has a certain expansion capability.

• The main stations of the line are composed of riveting station, shoe base attachment assembly station, grinding & inspection station, turning station, brake shoe attachment assembly station, palletizing station, etc.

• The automated assembly lines can be customized according to the users' needs and processes.



全球市场 Global Market



全球客户分布

Global Customer Distribution:

美国, 俄罗斯, 比利时, 波兰, 巴西, 印度, 南非, 沙特, 伊朗, 阿根廷, 乌拉圭, 玻利维亚, 乌克兰, 乌兹别克斯坦, 巴基斯坦, 哈萨克斯坦, 马来西亚, 印度尼西亚, 喀麦隆, 阿尔及利亚, 泰国, 土耳其, 德国, 智利, 埃塞俄比亚等。

United States, Russia, Belgium, Poland, Brazil, India, South Africa, Saudi Arabia, Ethiopia, Iran, Argentina, Uruguay, Bolivia, Chile, Ukraine, Uzbekistan, Pakistan, Kazakhstan, Malaysia, Indonesia, Cameroon, Algeria, Thailand, Türkiye, Germany, etc.



服务保障 Service and Guarantee



五大服务保障

Five Major Service Guarantees:

- 1、摩擦材料技术配方研发支撑服务
- 2、产品质量检测保障服务
- 3、项目生产线整体规划方案
- 4、项目生产线设备制造技术方案
- 5、项目方案全球售后服务保障体系
- 1、 Technical formula R & D support service for friction materials
- 2、 Product quality inspection guarantee service
- 3、 Overall planning plan for project production lines
- 4、 Technical plan for manufacturing equipment of project production lines
- 5、 Global after – sales service guarantee system for project plans